

FORM PTO-1449 (REV. 8-83)	U.S. Department of Commerce Patent and Trademark Office	ATTY. DOCKET: 2003080-0071 (SK-744-US/CON4)	IN RE APPLICATION NO.:
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANT: DANISHEFSKY, ET AL.	
EXPRESS MAIL NO.: EL603009481US		FILING DATE: DECEMBER 4, 2001	GROUP: 1626

10/004571
10/04/01

12/04/01

U.S. PATENT DOCUMENTS

*asterisk indicates submitted with parent application no.: 09/874,514, filed June 5, 2001, 08/986,025, (now Patent No: 6,242,469) Danishefsky, et al., or 6,204,388 (Danishefsky, et al.)

Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
YD	*5,969,145	Schinzer, et al.	October 19, 1999	548	110
	*5,021,430	Ksander, et al.	June 4, 1991	514	332
	*5,917,084	Jiang, et al.	June 29, 1999	560	174
	*6,043,372	Schinzer, et al.	March 28, 2000	548	110
	*6,156,905	Schinzer, et al.	December 5, 2000	548	204
	*6,204,388	Danishefsky, et al.	March 20, 2001	546	340
	*6,242,469	Danishefsky, et al.	June 5, 2001	514	365
	6,284,781	Danishefsky, et al.	September 4, 2001	514	365
	6,300,355	Danishefsky, et al.	October 9, 2001	514	374
	6,316,630	Danishefsky et al.	November 13, 2001	546	281.7
	6,288,237	Hoefle, et al.	September 11, 2001	548	203
	6,302,838	O'Reilly, et al.	October 16, 2001	574	365

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Examiner's Initials:	Serial Number:	Applicant:	Filing Date:	Group:	Art Unit:
YD	*60/032,864	Nicolaou, et al.	December 13, 1996		
	*08/856,533	Nicolaou, et al.	May 14, 1997		
	*08/923,869	Nicolaou, et al.	September 4, 1997		

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				Yes	No
YD	*19542986.9	DE	17 November 1995		
	*19639456.2	DE	25 September 1996		
	*WO99/02514	WO	21 January 1999		
	*WO98/25929	WO	18 June 1998		
	*WO98/08849	WO	05 March 1998		
	*WO97/19086	WO	29 May 1997		

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				FILING DATE: DECEMBER 4, 2001		GROUP: 1626	
YU	*19636343	DE	23 October 1997		Z		
	*19639456	DE	26 March 1998				
	*19544986	DE	22 May 1997				
	*19645362	DE	30 April 1998				
	*19645361	DE	30 April 1998				
OTHER DOCUMENTS *asterisk indicates submitted with parent application no.: 09/874,514, filed June 5, 2001; application no. 08/986,025, (now Patent No: 6,242,469) Danishefsky, et al., or 6,204,388 (Danishefsky, et al.)							
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YU	*Balog et al., "Stereoselective Syntheses and Evaluation of Compounds in the 8-Desmethylepothilone A Series: Some Surprising Observations..." <i>Tetrahedron Letters</i> 38:26 4529-4532 (1997). ✓						
	*Bijoy, P. et al., "Synthetic Studies Directed Towards Epothilone A:...", <i>Tetrahedron Letters</i> 39:209-212 (1998) ✓						
	*Bollag, Daniel M., "Epothilones, a New Class of MT-stabilizing Agents...", <i>Cancer Research</i> 55:2325-2333 (1995). ✓						
	*Chakraborty, T.K. et al., "Radical-induced Opening of Trisubstituted Epothilones", <i>Tetrahedron Letters</i> 39:101-104 (1998). ✓						
	*Claus, E. et al., "Synthesis of the C1-C9 Segment of Epothilones", <i>Tetrahedron Letters</i> 38:8:1359-1362 (1997). ✓						
	*Gabriel, T., "The Chromium-Reformatsky Reaction:...", <i>Tetrahedron Letters</i> 38:8 1363-1366 (1997). ✓						
	*Gerth, K. et al., "Epothilone A and B: Antifungal and Cytotoxic Compounds...", <i>Liebigs Ann.Chem.</i> 74 & 75, 49-53 (1996) ✓						
	*Giannakakou, P. et al., "Paclitaxel-resistant Human Ovarian Cancer Cells Have Mutant -Tubulins...", <i>J. Bio. Chem.</i> 272:27 17118-17125 (1997) ✓						
	*Höfle, G. et al. "Epothilone A and B-Novel 16-Membered Macrolides with Cytotoxic...", <i>Chem Int. Ed. Engl.</i> 35:13 14, 1567-1569 (1996). ✓						
	*Kowalski, R.J. et al., "Activities of the Microtubule-stabilizing Agents Epothilones A and B...", <i>J. of Biol. Chem.</i> 272:4 2534-2541 (1997). ✓						
	*Liu, Z.Y. et al., "Chiral Synthesis of the C ₃₋₁₃ Segment of Epothilone A" <i>Synlett Letters</i> 1383-84 (1997). ✓						
	*March, Advanced Organic Chemistry, 2nd Ed., McGraw-Hill (1977), page 940, section 7-21 ✓						
	*Meng et al. "Studies toward a Synthesis of Epothilone A: Use of Hydropyran Templates for the Management of Acyclic Stereochemical Relationships" <i>J. Org. Chem.</i> 61:23 7998-8001 (1996). ✓						
	*Meng et al. "Total Synthesis of Epothilones A and B" <i>J. Am. Chem. Soc.</i> 119:42 10073-10092 (1997). ✓						

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		APPLICANT: Danishefsky <i>et al.</i>	
		FILING DATE: December 4, 2001	GROUP: 1626

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Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
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	6,096,757	Bishop	August 1, 2000	514	290
	6,117,659	Ashley	September 12, 2000	435	155
	6,121,029	Schupp	September 19, 2000	435	183
	6,211,412	Georg	April 3, 2001	568	309
	6,221,641	Khosla	April 24, 2001	435	193
	6,251,636	Betlach	June 26, 2001	435	76
	6,262,107	Li	July 17, 2001	514	449
	6,280,999	Gustafsson	August 28, 2001	435	252.3
	6,407,103	Nugiel <i>et al.</i>	June 18, 2002	514	232.8
	6,419,692	Yang <i>et al.</i>	July 16, 2002	623	115
	6,441,186	Nicolaou <i>et al.</i>	August 27, 2002	548	204
	6,457,303	Georg <i>et al.</i>	October 1, 2002	56	465
	6,489,314	Ashley <i>et al.</i>	December 3, 2002	514	183
	6,498,257	Vite <i>et al.</i>	December 24, 2002	548	205
	6,576,651	Bandyopadhyay <i>et al.</i>	June 10, 2003	514	365
	6,596,875	White <i>et al.</i>	July 22, 2003	548	204
	6,670,384	Bandyopadhyay <i>et al.</i>	December 30, 2003	514	365
	6,683,100	Van Hoogevest	January 27, 2004	514	365
	6,686,380	Lee	February 3, 2004	514	365
	6,689,802	DiMarco <i>et al.</i>	February 10, 2004	514	365
	6,719,540	Regueiro-Ren <i>et al.</i>	April 13, 2004	417	365
	6,723,854	Danishefsky <i>et al.</i>	April 20, 2004	548	203
	6,727,276	Lee	April 27, 2004	514	540
	6,730,699	Li <i>et al.</i>	May 4, 2004	514	449
	6,730,803	Iwasaki <i>et al.</i>	May 4, 2004	558	442
	6,780,620	Li <i>et al.</i>	August 24, 2004	435	117

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40	2002/0086812	Schweinfest et al.	July 4, 2002				
	2002/0115686	Hoogevest	August 22, 2002				
	2002/0119202	Hunter et al.	August 29, 2002				
	2002/0137152	Santi et al.	September 26, 2002				
	2002/0143038	Bandyopadhyay <i>et al.</i>	October 3, 2002				
	2002/0147197	Newman et al.	October 10, 2002				
	2002/0156110	Arslanian et al.	October 24, 2002				
	2002/0156289	Georg et al.	October 24, 2002				
	2002/0164377	Hunter et al.	November 7, 2002				
	2002/0165258	Lee	November 7, 2002				
	2002/0165257	Lee	November 7, 2002				
	2002/0165265	Hunter et al.	November 7, 2002				
	2002/0165415	Georg et al.	November 7, 2002				
	2002/0169125	Leung et al.	November 14, 2002				
	2002/0169135	Pardee et al.	November 14, 2002				
	2002/0169190	Bandyopadhyay et al.	November 14, 2002				
	2002/0177615	Bandyopadhyay et al.	November 28, 2002				
	2002/0192778	Schupp <i>et al.</i>	December 19, 2002				
	2002/0193361	Ashley <i>et al.</i>	December 19, 2002				
	2002/0197261	Li <i>et al.</i>	December 26, 2002				
	2002/0198141	McChesney <i>et al.</i>	December 26, 2002				
	2003/0191089	Regueiro-Ren <i>et al.</i>	October 9, 2003				
	2003/0187273	White <i>et al.</i>	October 2, 2003				
	2003/0139460	Schwede <i>et al.</i>	July 24, 2003				
	2003/0134883	Myles <i>et al.</i>	July 17, 2003				
	2003/0130178	Li <i>et al.</i>	July 10, 2003				
✓	2003/0130170	Li <i>et al.</i>	July 10, 2003				

FORM PTO-1449 (REV. 8-83)		U.S. Department of Commerce Patent and Trademark Office		ATTY. DOCKET: 2003080-0071 (SK-744-CON4)		IN RE APPLICATION NO.:10/004,571	
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				FILING DATE: December 4, 2001		GROUP: 1626	
10	2003/0124055	Li <i>et al.</i>	July 3, 2003				
	2003/0125362	Danishefsky <i>et al.</i>	July 3, 2003				
	2003/0113335	Li <i>et al.</i>	June 19, 2003				
	2003/0114363	Li <i>et al.</i>	July 3, 2003				
	2003/0114450	Santi <i>et al.</i>	June 19, 2003				
	2003/0114504	Webster <i>et al.</i>	June 19, 2003				
	2003/0114518	Li <i>et al.</i>	June 19, 2003				
	2003/0105330	Danishefsky <i>et al.</i>	June 5, 2003				
	2003/0109500	Pero <i>et al.</i>	June 12, 2003				
	2003/0096381	Julien <i>et al.</i>	May 22, 2003				
	2003/0073677	Lee	April 17, 2003				
	2003/0073617	Li <i>et al.</i>	April 17, 2003				
	2003/0073615	Li <i>et al.</i>	April 17, 2003				
	2003/0073205	Arslanian <i>et al.</i>	April 17, 2003				
	2003/0060623	Vite <i>et al.</i>	March 27, 2003				
	2003/0054977	Kumar <i>et al.</i>	March 20, 2003				
	2003/0049841	Short <i>et al.</i>	March 13, 2003				
	2003/0045711	Ashley <i>et al.</i>	March 6, 2003				
	2003/0036515	Pardee <i>et al.</i>	February 20, 2003				
	2003/0036177	Strohhacker	February 20, 2003				
	2003/0004338	Li <i>et al.</i>	January 2, 2003				
	2003/0004209	Hunter <i>et al.</i>	January 2, 2003				
	2003/0003094	Hunter <i>et al.</i>	January 2, 2003				
	2004/0023345	Vite <i>et al.</i>	February 5, 2004				
	2004/0024032	Voi <i>et al.</i>	February 5, 2004				
	2004/0024033	O'Reilly <i>et al.</i>	February 5, 2004				
	2004/0030147	White <i>et al.</i>	February 12, 2004				
	2004/0038324	Atadja <i>et al.</i>	February 26, 2004				
	2004/0039026	Nicolaou <i>et al.</i>	February 26, 2004				
✓	2004/0044203	Wittman <i>et al.</i>	March 4, 2004				

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				FILING DATE: December 4, 2001		GROUP: 1626	
Y	0	2004/0044221	Danishefsky <i>et al.</i>	March 4, 2004			
		2004/0049051	Hoefle <i>et al.</i>	March 11, 2004			
		2004/0053910	Danishefsky <i>et al.</i>	March 18, 2004			
		2004/0053978	Lee <i>et al.</i>	March 18, 2004			
		2004/0053995	Danishefsky <i>et al.</i>	March 18, 2004			
		2004/0054186	Das <i>et al.</i>	March 18, 2004			
		2004/0087610	Pardee <i>et al.</i>	May 6, 2004			
		2004/0087634	Hoefle <i>et al.</i>	May 6, 2004			
		2004/0092478	Rothermel <i>et al.</i>	May 13, 2004			
		2004/0092514	Velaparthi <i>et al.</i>	May 13, 2004			
		2004/0092560	Hoefle <i>et al.</i>	May 13, 2004			
		2004/0097517	Dwyer <i>et al.</i>	May 20, 2004			
		2004/0102451	Guzi <i>et al.</i>	May 27, 2004			
		2004/0102452	Guzi <i>et al.</i>	May 27, 2004			
		2004/0102495	Danishefsky <i>et al.</i>	May 27, 2004			
		2004/0106624	Guzi <i>et al.</i>	June 3, 2004			
		2004/0106985	Jang	June 3, 2004			
		2004/0116442	Guzi <i>et al.</i>	June 17, 2004			
		2004/0126379	Adolf <i>et al.</i>	July 1, 2004			
		2004/0127432	Nicolaou <i>et al.</i>	July 1, 2004			
		2004/0132146	Benigni <i>et al.</i>	July 8, 2004			
		2004/0133271	Jang	July 8, 2004			
		2004/0132692	Sherrill <i>et al.</i>	July 8, 2004			
		2004/0132736	Guzi <i>et al.</i>	July 8, 2004			
		2004/0132754	Brandt <i>et al.</i>	July 8, 2004			
		2004/0142931	Vite <i>et al.</i>	July 22, 2004			
		2004/0142990	Hofmann <i>et al.</i>	July 22, 2004			
		2004/0152708	Li <i>et al.</i>	August 5, 2004			
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Examiner's	Document No.	Country	Date	Translation			

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INITIALS				FILING DATE: December 4, 2001		GROUP: 1626	
						Yes	No
70	DE 41 38 042	Germany	19 November 1991				
	DE 196 07 702	Germany	29 February 1996				
	DE 196 38 870	Germany	23 September 1996				
	DE 197 01 758	Germany	20 January 1997				
	DE 197 13 970	Germany	04 April 1997				
	DE 197 20 312	Germany	15 May 1997				
	DE 197 26 627	Germany	17 June 1997				
	DE 197 35 574	Germany	09 August 1997				
	DE 197 35 575	Germany	09 August 1997				
	DE 197 35 578	Germany	09 August 1997				
	DE 197 44 135	Germany	29 September 1997				
	DE 197 49 717	Germany	31 October 1997				
	DE 197 51 200	Germany	13 November 1997				
	DE 198 13 821	Germany	20 March 1998				
	DE 198 21 954	Germany	15 May 1998				
	DE 198 33 750	Germany	16 July 1998				
	DE 198 46 493	Germany	09 October 1998				
	DE 198 30 060	Germany	30 June 1998				
	DE 198 49 464	Germany	21 October 1998				
	DE 199 08 763	Germany	18 February 1999				
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	DE 199 23 001	Germany	13 May 1999				
	DE 199 30 111	Germany	01 July 1999				
	DE 199 54 228	Germany	04 November 1999				
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	DE 100 51 136	Germany	16 October 2000				
✓	DE 100 15 836	Germany	27 March 2000				

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				FILING DATE: December 4, 2001		GROUP: 1626	
Y0	DE 100 20 517	Germany	19 April 2000				
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	EP 1 440 973	Europe	July 28, 2004				
	EP 1 428 826	Europe	June 16, 2004				
	EP 1 407 784	Europe	April 14, 2004				
	EP 1 386 922	Europe	February 4, 2004				
	EP 1 340 498	Europe	September 3, 2003				
	EP 1 275 648	Europe	15 January 2003				
	EP 1 201 666	Europe	02 May 2002				
	EP 1 186 606	Europe	17 March 2002				
	EP 1 121 364	Europe	13 March 2002				
	EP 1 001 951	Europe	25 September 2002				
	EP 0 975 638	Europe	07 August 2002				
	EP 0 975 622	Europe	09 October 2002				
	WO 04/080458	International	September 23, 2004				
	WO 04/063151	International	July 29, 2004				
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	WO 04/056832	International	July 8, 2004				
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	WO 04/028610	International	April 8, 2004				
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Y0	WO 04/024735	International	March 25, 2004				
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	WO 04/022062	International	March 18, 2004				
	WO 04/018635	International	March 4, 2004				
	WO 04/016269	International	February 26, 2004				
	WO 04/012735	International	February 12, 2004				
	WO 03/084536	International	October 16, 2003				
	WO 03/078411	International	September 25, 2003				
	WO 03/077903	International	September 25, 2003				
	WO 03/075899	International	September 18, 2003				
	WO 03/074521	International	September 12, 2003				
	WO 03/074053	International	September 12 2003				
	WO 03/070170	International	13 February 2002				
	WO 03/018002	International	06 March 2003				
	WO 03/014068	International	20 February 2003				
	WO 03/014063	International	20 February 2003				
	WO 03/007924	International	30 January 2003				
	WO 02/098868	International	14 May 2002				
	WO 02/096281	International	December 5, 2004				
	WO 02/072085	International	19 September 2002				
	WO 02/067941	International	06 September 2002				
	WO 02/046196	International	13 June 2002				
	WO 02/030356	International	April 18, 2002				
	WO 01/010412	International	02 August 2000				
	WO 01/007439	International	24 July 2000				
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	WO 00/047584	International	11 February 2000				
	WO 00/039276	International	21 December 1999				
	WO 00/037473	International	20 December 1999				
	WO 00/031247	International	19 November 1999				
	WO 00/000485	International	30 June 1999				
	WO 99/067253	International	21 June 1999				
	WO 99/066028	International	16 June 1999				
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	WO 99/058534	International	07 May 1999				
	WO 99/054319	International	05 April 1999				
✓	WO 99/054318	International	05 April 1999				
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Y0	Ahmed <i>et al.</i> , "Total Synthesis of the Microtubule Stabilizing Antitumor Agent Laulimalide and Some Nonnatural Analogues: The Power of Sharpless' Asymmedtric Epoxidation" <i>J. Org. Chem.</i> 68:3026-3042, 2003. ✓						
	Altmann <i>et al.</i> , "Epothilones and Their Analogs-Potential New Weapons in the Fight Against Cancer" <i>Chimia</i> , 54:612-621, 2000. ✓						
	Altmann <i>et al.</i> , "Synthesis and Biological Evaluation of Highly Potent Analogues of Epothilones B and D" <i>Bioorg. Med. Chem. Lett.</i> 10(24):2765-2768, 2000. ✓						
	Altmann <i>et al.</i> , "Epothilones and Related Structures-A New Class of Microtubule Inhibitors with Potent in vivo Antitumor Activity" <i>Biochim. Biophys. Acta</i> , 1470(3):M79-M91, 2000. ✓						
	Altmann <i>et al.</i> , "Synthetic and Semisynthetic Analogs of Epothilones: Chemistry and Biological Activity" <i>Book of Abstracts</i> , 219 th ACS National Meeting, San Francisco, CA, March 26-30, ORGN-287, 1999. ✓						
	Altmann <i>et al.</i> , "Microtubule-Stabilizing Agents: A Growing Class of Important Anticancer Drugs" <i>Curr. Opin. Chem. Biol.</i> , 5(4):424-431, August 2001. ✓						
	Appendino <i>et al.</i> , "The Synthesis of Epothilones: Highlights from a Year's Race" <i>Chemtracts</i> 11(9):678-696, 1998. ✓						
✓	Arslanian <i>et al.</i> , "A New Cytotoxic Epothilone from Modified Polyketide Synthases						

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10	Heterologously Expressed in <i>Myxococcus xanthus</i> " <i>J. Nat. Prod.</i> 65:1061-1064, 2002. ✓		
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INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANT: Danishefsky <i>et al.</i>	
		FILING DATE: December 4, 2001	GROUP: 1626
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		FILING DATE: December 4, 2001	GROUP: 1626	
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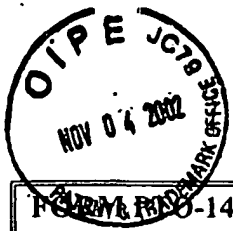
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INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANT: Danishefsky <i>et al.</i>	
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EXAMINER T. A. Solola				DATE CONSIDERED 3/14/05			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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(REV. 8-83)

U.S. Department of
Commerce
Patent and Trademark OfficeATTY. DOCKET:
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(SK-744-CON4)IN RE
APPLICATION
NO.:
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INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT: DANISHEFSKY, ET AL.

FILING DATE:
DECEMBER 4, 2001

GROUP: 1626

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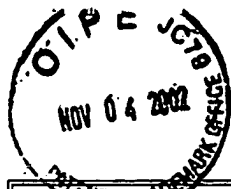
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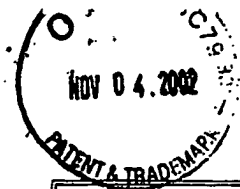
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INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANT: DANISHEFSKY, ET AL.			
				FILING DATE: DECEMBER 4, 2001		GROUP: 1626	
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				FILING DATE: DECEMBER 4, 2001		GROUP: 1626	
Examiner's Initials		Citation (Including Author, Title, Date, Pertinent Pages, Etc.) <i>T. A. Solola</i> <i>3/14/05</i>					

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